

THE CLAIMS

1. (currently amended) A method of transferring a file to or from a server past a firewall, comprising the steps of:

accessing a web site behind the firewall, the web site having a web page including an applet, and the web site associated with the server;

receiving the web page and the applet from the web site;

sending the applet to an application at a file transfer gateway;[[and]]

transferring the file between the file transfer gateway and the server through the firewall[.];

interrupting the transferring of said file; and

restarting at some midpoint said transferring of said file between the file transfer gateway and the server through the firewall.

2. (original) A method as in claim 1, wherein the web site is at a collaboration manager separate from the server.

3. (original) A method as in claim 1, wherein the applet is signed responsive to authorization of a user accessing the web site.

4. (original) A method as in claim 1, wherein accessing the web site and receiving the web page and the applet are performed using a web browser.
5. (original) A method as in claim 4, wherein the web browser and the file transfer gateway are implemented on a client.
6. (original) A method as in claim 1, wherein the application at the file transfer gateway is a file transfer service implemented on a client or edgebox.
7. (original) A method as in claim 6, wherein transferring the file between the file transfer gateway and the server is performed over a virtual channel between the file transfer service at the file transfer gateway and a file transfer adapter at the server.
8. (original) A method as in claim 1, wherein the file is transferred in chunks.
9. (currently amended) A method as in claim ~~[[9]]~~8, wherein the chunks are transferred using a basic hypertext transport mechanism.

10. (original) A method as in claim 1, further comprising the step of encrypting, decrypting, or performing some other operation on the file before or after transferring the file.

11. (currently amended) A method of transferring a file to or from a server past a firewall, comprising the steps of:

authenticating access by a requestor to a web site behind the firewall, the web site having a web page including an applet, and the web site associated with the server;

sending the web page and the applet to the requestor;

receiving a request from the requestor to transfer the file to or from the requestor;

transferring the file between the file transfer gateway and the server through the firewall[.];

Interrupting said transferring of said file; and

restarting at some midpoint said transferring of said file between the file transfer gateway and the server through the firewall.

12. (original) A method as in claim 11, wherein the requestor is a browser or edgebox.

13. (original) A method as in claim 11, wherein the applet is signed responsive to authorization of the requestor.

14. (original) A method as in claim 11, wherein the web site is at a collaboration manager separate from the server.

15. (original) A method as in claim 11, wherein transferring the file between the file transfer gateway and the server is performed over a virtual channel between a file transfer service at the file transfer gateway and a file transfer adapter at the server.

16. (original) A method as in claim 11, wherein the file is transferred in chunks.

17. (original) A method as in claim 16, wherein the chunks are transferred using a basic hypertext transport mechanism.

18. (original) A method as in claim 11, further comprising the step of encrypting, decrypting, or performing some other operation on the file before or after transferring the file.

19. (currently amended) A method of downloading a file from a server past a firewall, comprising the steps of:

registering with the server behind the firewall;

polling the server for files to be downloaded; and

downloading the file from the server through the firewall over a virtual channel;

wherein the file is transferred in chunks using a basic hypertext transport mechanism[.];

interrupting said downloading of said file; and

restarting at some midpoint said downloading of said file from the server through the firewall over a virtual channel.

20. (original) A method as in claim 19, further comprising the step of encrypting, decrypting, or performing some other operation on the file before or after transferring the file.

21. (currently amended) A method of downloading a file from a server past a firewall, comprising the steps of:

receiving a registration at the server behind the firewall;

receiving polling of the server for files to be downloaded; and

downloading the file from the server through the firewall over a virtual channel;

wherein the file is transferred in chunks using a basic hypertext transport mechanism[[]];

interrupting downloading of said file; and

restarting at some midpoint said downloading of said file from the server through the firewall over a virtual channel.

22. (original) A method as in claim 21, further comprising the step of encrypting, decrypting, or performing some other operation on the file before or after transferring the file.